

Lexicon Contract Name: DNA175
LexVision Name: SEMAPHO_1
Genentech ID: UNQ749



Mouse Accession(s): ENSMUST00000032754, A.chr7-000010.0.0.6416969
Omnibank Clone: OST52269, VICTR 37

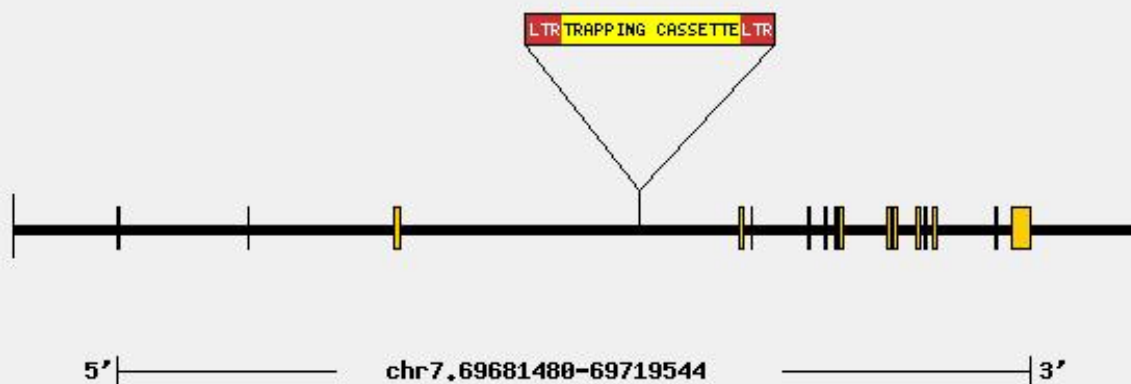
Mutation Description:

Listed below is a portion of the mouse genomic sequence ([from mouse chr.7](#)) surrounding the gene trap insertion site in the Omnibank mouse line SEMAPHO_1 (OST52269). The sequence below includes 250 nucleotides of sequence on either side of the gene trap insertion site, which is denoted with an asterisk *.

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5'
CAGGGCTTTTGGATTTTGTGTTTGGAGCTACTCGAGTGTTGATCGTGTGCCAGGCACCATGCCAGCGCAG
GGGAAACGTGTGTAAGGTTGTTTTGAGTAAAGCTCTCAGTAAGTGTGGGTTATTATGTACATTATTATTT
ACATACGTAATCTCGTTTCTTCTCATAACAACTCTATGAGGCAGAGGGCTATTATTGTCCCCATTTTGCA
GATAAGGAAAGTGGGGCTCTGAGAGGTTAAGTGGCTTGTC*CTTATGAGTGGCAGAGGCTGGGTTTGAAC
CAGGTCTTTGACTCCTGTATATGTTCTCAGTCTGTCCTGTGAGATAACCAAGTGGGAATAGTGAGGTCCA
CAGCCGGGTTTCATCAGCAGCGCACCATGACTCTTAAGTTTGAGGCCAGGGTAGAAGGGAGGCGGGCTGA
GGGCAGGGATGGAGGGCGGTCCCAGCATGAGAGGGCATGCTGTGAAGGGACTGTGCTCAGTTCAAGGCAT AGTCCACTTCC 3'
```

Mutation Illustration:

Accession: A.chr7-000010.0.0.6416969



DNA175 – SEMAPHO_1 PCR to Confirm Genotypes

Reaction Components	Vol (ul)	Cycling Conditions: Touchdown			
10X Sigma Buffer	5	Step	Temp	Time	Note
25mM MgCl ₂	5	1	94C	10'	
10mM dNTPs	1	2	94C	15"	
LTR2 Primer 20 uM	1.25	3	65C	30"	Decrease 1C/cycle
SEMAPHO_1 3' Primer 20 uM	1.25	4	72C	30"	Go to 2, 10 cycles
5 U/ul Taq polymerase	0.5	5	94C	15"	
Water	31	6	55C	30"	
Total mix volume	45	7	72C	30"	Go to 5, 30 cycles
Tail lysate (1:20 dilution)	5	8	72C	5'	
Total reaction volume	50				

Primer sequences (5' to 3'):

LTR2	AAATGGCGTTACTTAAGCTAGCTTGC
SEMAPHO_1 3'	CCGGCTGTGGACCTCACTATTC

Well	Sample	Genotype
1	22	het
2	23	het
3	24	het
4	26	het
5	62	het
6	99	het
7	101	het
8	102	het
9	105	het
10	106	het
11	109	het
12	124	het
13	125	het
14	130	het
15	45	hom
16	wt lysate	wt
17	H2O	no amp

